

RESONANT LINEAR MOTOR DRIVEN
CRYOCOOLER SYSTEM

ABSTRACT

A resonant linear motor driven cryocooler system, particularly suited for providing refrigeration to a magnetic resonance imaging system, wherein vibrations from the resonant linear motor and noise from pulsed gas are isolated from the cryocooler by work transfer piping comprising connecting tubing and preferably a dashpot, and wherein the connecting tubing has a volume which exceeds the internal stroke volume of the resonant linear motor.